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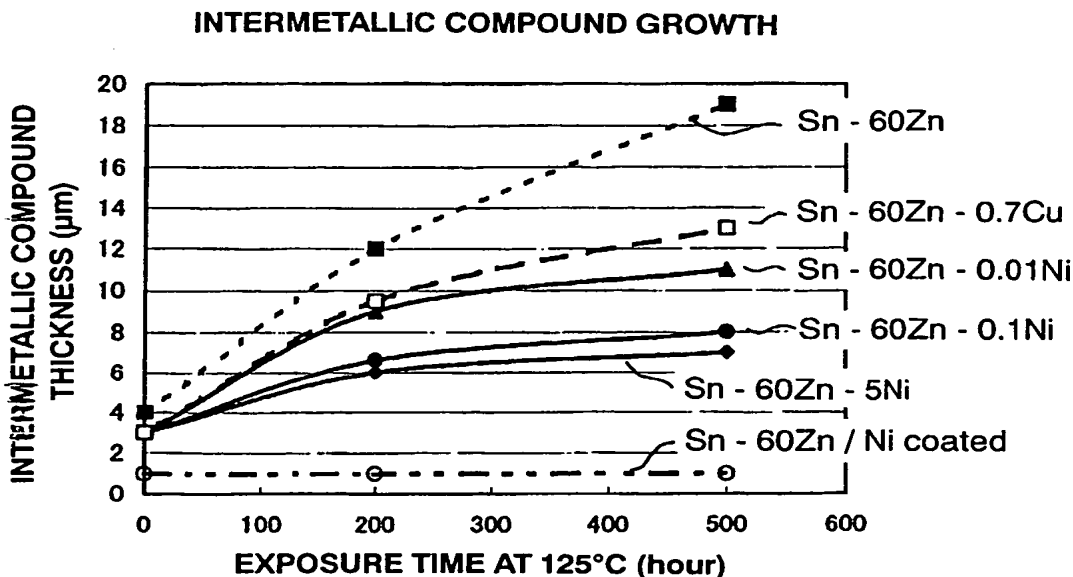
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(54) Title: **A LEAD-FREE SOLDER, AND A LEAD-FREE JOINT**

(57) Abstract: A solder not containing lead (a lead-free solder) contains zinc and tin, and also contains 5 weight percent or less nickel and 0.5 weight percent or less aluminum with a liquid phase temperature of 260 degrees C or greater. In addition, a lead-free solder has a liquid phase temperature of 260 degrees C or greater, and contains 30 to 70 weight percent zinc, 5 weight percent or less nickel, and the remaining weight percent tin. Moreover, a joint is manufactured using these lead-free solders. As a result, a lead-free solder and a lead-free joint having excellent electrical characteristics but not including harmful substances, can be provided.



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